

From: [Mitchell, Tanya](#)
To: [Hagerman, Paul](#); [Darpinian, Amy F NWK](#)
Subject: RE: Rolling Knolls - Issues with Pore Samples (UNCLASSIFIED)
Date: Thursday, January 22, 2015 3:12:19 PM

Hi Paul,

At this time, I have notified ARCADIS that the pore water samples should be put on hold. We should have sample data available in two weeks that should be able to assist us with a determination of where to place a MW. If additional data is needed or required, we can reevaluate the situation at that time.

Thanks,

Tanya

From: Hagerman, Paul [<mailto:HagermanPR@cdmsmith.com>]

Sent: Wednesday, January 21, 2015 11:42 AM

To: Mitchell, Tanya; Darpinian, Amy F NWK

Subject: RE: Rolling Knolls - Issues with Pore Samples (UNCLASSIFIED)

There is one more person within CDM Smith I am waiting to hear from on this, he is at a meeting this morning (on the west coast) so I hope to hear later today. If I don't get word back by 3 EST, I'll summarize our thoughts and recommendations that I received from our local folks this afternoon and then follow up with any additional thoughts if we learn anything new/additional/different.

Paul Hagerman, P.E.

CDM Smith

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From: Mitchell, Tanya [<mailto:Mitchell.Tanya@epa.gov>]

Sent: Wednesday, January 21, 2015 6:56 AM

To: Hagerman, Paul; Darpinian, Amy F NWK

Subject: RE: Rolling Knolls - Issues with Pore Samples (UNCLASSIFIED)

Amy/Paul,

Thank you for the notification. ARCADIS has also reported the situation. If possible, can you check your resources for a possible solution. I have also reached out to EPA staff.

Thanks,

Tanya

From: Hagerman, Paul [<mailto:HagermanPR@cdmsmith.com>]

Sent: Tuesday, January 20, 2015 10:02 AM

To: Darpinian, Amy F NWK; Mitchell, Tanya

Subject: RE: Rolling Knolls - Issues with Pore Samples (UNCLASSIFIED)

Yes – I'm glad you mentioned that..... I forgot to add: Although daytime temperatures are above freezing, the night time temperatures are falling well below freezing, which gives concern that the ground isn't going to thaw in the short term (next week or so) based on the 10 day weather projection.

Paul Hagerman, P.E.

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From: Darpinian, Amy F NWK [<mailto:Amy.F.Darpinian@usace.army.mil>]
Sent: Tuesday, January 20, 2015 9:59 AM
To: Hagerman, Paul; Mitchell, Tanya (Mitchell.Tanya@epa.gov)
Subject: RE: Rolling Knolls - Issues with Pore Samples (UNCLASSIFIED)
Classification: UNCLASSIFIED
Caveats: NONE

Paul – thank you for the thorough explanation. Must be cold out there!
Amy

From: Hagerman, Paul [<mailto:HagermanPR@cdmsmith.com>]
Sent: Tuesday, January 20, 2015 8:48 AM
To: Mitchell, Tanya (Mitchell.Tanya@epa.gov); Darpinian, Amy F NWK
Subject: [EXTERNAL] RE: Rolling Knolls - Issues with Pore Samples
Ok – I just spoke with Ricky.

ARCADIS decided to not perform the sampling (either PDBs or direct push pore water).
The water on the surface (when it was there) was frozen, but more significantly, in a test pit near the PDBs, they dug with a shovel and found the first four inches of ground was frozen. Their concern is that they would not be able to retrieve the PDBs without damaging them. They also noted, however, that the cellulose membrane of the PDBs means that the bags have a limited lifespan. Their SOP refers to a maximum of 14 days before removal of the bags.
Also, with the first 4" of ground frozen, they decided that using direct push to collect the other pore water samples would be extremely difficult.
Ricky said that ARCADIS field staff will report back to their management, who will presumably report to EPA their plans.

Paul Hagerman, P.E.

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From: Hagerman, Paul
Sent: Tuesday, January 20, 2015 9:20 AM
To: Mitchell, Tanya (Mitchell.Tanya@epa.gov); Darpinian, Amy F NWK (Amy.F.Darpinian@usace.army.mil)
Subject: Rolling Knolls - Issues with Pore Samples

I just received a voicemail from Ricky – there are problems with the pore samples in that the ground is frozen and they would not be able to retrieve them. I'm reaching out to Ricky now and will give you a longer update, but wanted to give you a heads up while the information was new.

Paul Hagerman, P.E.

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Classification: UNCLASSIFIED

Caveats: NONE